



arthritis and rheumatism

Official Journal of The American Rheumatism Association
Section of The Arthritis Foundation

VOLUME 14, 1971



Medical Department
HARPER & ROW, PUBLISHERS, INC.
New York

ARTHRITIS AND RHEUMATISM

EDITOR

Charles L. Christian, MD

EDITORIAL BOARD

K. Frank Austen, MD, Boston

J. Claude Bennett, MD, Birmingham

Alfred J. Bollet, MD, Augusta

John J. Calabro, MD, Worcester

Alan S. Cohen, MD, Boston

Paul H. Curtiss, Jr, MD, Columbus

John L. Decker, MD, Bethesda

Edward C. Franklin, MD, New York

David S. Howell, MD, Miami

William H. Kammerer, MD, New York

Stephen M. Krane, MD, Boston

Henry G. Kunkel, MD, New York

Henry J. Mankin, MD, New York

Mart Mannik, MD, Seattle

William M. O'Brien, MD, Charlottesville

Gerald P. Rodnan, MD, Pittsburgh

John T. Sharp, MD, Houston

Leif B. Sorensen, MD, PhD, Chicago

Charles D. Tourtellotte, MD, Philadelphia

Stanley L. Wallace, MD, New York

Ralph C. Williams, Jr, MD, Albuquerque

Nathan J. Zvaifler, MD, San Diego

COMMITTEE FOR THE PUBLICATION OF

Arthritis and Rheumatism

Alan S. Cohen, MD, Chairman, Boston

K. Frank Austen, MD, Boston

John S. Davis, MD, Charlottesville

Carl M. Pearson, MD, Los Angeles

Stanley L. Wallace, MD, New York

Ralph C. Williams, MD, Albuquerque

arthritis and rheumatism

Official Journal of The American Rheumatism Association
Section of The Arthritis Foundation

CONTENTS

No. 1 (January-February)

Antibodies to Viral Antigens in Systemic Lupus Erythematosus <i>F. Blaine Hollinger, John T. Sharp, Martin D. Lidsky and W. E. Rawls</i>	1
The Rarity of Ankylosing Spondylitis in the Black Race <i>John Baum and Morris Ziff</i>	12
Acute Arthritis Complicating Rubella Vaccination <i>George R. Thompson, Alfredo Ferreyra and Robert G. Brackett</i>	19
Anemia as a Presenting Manifestation of Giant Cell Arteritis <i>L. A. Healey and Kenneth R. Wilske</i>	27
Avoiding False-Positive Joint Scans by the Use of Labeled Albumins <i>Marvin B. Cohen and Arthur Lorber</i>	32
Connective Tissue Activation. I. The Nature, Specificity, Measurement and Distribution of Connective Tissue Activating Peptide <i>C. William Castor</i>	41
Connective Tissue Activation. II. Abnormalities of Cultured Rheumatoid Synovial Cells <i>C. William Castor</i>	55
Canine Rheumatoid Arthritis: A Case Report <i>Robert M. Lewis and Yves Borel</i>	67
A Rapid Method for Evaluating the Structure and Function of the Rheumatoid Hand <i>Paul S. Treuhaft, Marilyn R. Lewis and Daniel J. McCarty</i>	75
The Complement System in Rheumatoid Synovitis. II. Intracytoplasmic Inclusions of Immunoglobulins and Complement <i>Melvin C. Britton and Peter H. Schur</i>	87
Antibacterial Activity of Synovial Fluid During Therapy of Septic Arthritis <i>Richard H. Parker and Frank R. Schmid</i>	96
Rheumatoid Synovial Cyst of the Hip: A Case Report <i>Cecil Samuelson, John R. Ward and Dominic Albo</i>	105
Chronic Synovitis as a Manifestation of Calcium Crystal Deposition Disease <i>Roland W. Moskowitz, Benjamin K. Harris, Abraham Schwartz and Gerald Marshall</i>	109

A Study of Regenerated Synovium After Synovectomy of the Knee in Rheumatoid Arthritis	
Chitranjan S. Ranawat, Lee Ramsay Straub, Richard Freyberg, Jose L. Granda and Marcos Rivelis	117
Joint Lubrication with Artificial Lubricants	
Eric L. Radin, Igor L. Paul and Paul A. Weisser	126
Communications	
Treatment with Colchicine if the Periarticular Inflammation Associated with Sarcoidosis: A Need for Continued Appraisal	
Edward D. Harris, Jr. and Michael Millis	130
Guidelines for the Use of Cytotoxic Drugs in Rheumatic Diseases	
Robert S. Schwartz and James D. C. Gowans	134
Current Comments	
Infection in Rheumatoid Arthritis	John Baum 135
Polymyalgia Rheumatica and Giant Cell Arteritis	
L. A. Healey, Frank Parker and Kenneth R. Wilske	138
Editorials	
Arthritis and Rheumatism Jan-Feb 1971	142
Infection and Chronic Rheumatic Disease	143
Book Reviews	144
ARA News	145
Abstracts	146

No. 2 (March-April)

<i>Mycoplasma Hyorhinis</i> Swine Arthritis. I. Clinical and Microbiologic Features	Jerri A. Barden and John L. Decker 193
<i>Mycoplasma Hyorhinis</i> Swine Arthritis. II. Morphologic Features	
R. S. Ennis, D. Dalgard, J. T. Willerson, J. A. Barden and J. L. Decker	202
Intra-Articular Thiotepa in Rheumatoid Disease. A Clinical Analysis of 123 Injected MP and PIP Joints	
Monty R. Ellison and Adrian E. Flatt	212
Levels of Three Hydrolases in Rheumatoid and Regenerated Synovium	
J. L. Granda, C. S. Ranawat and A. S. Posner	223
Hypocomplementemia in Rheumatoid Arthritis	
Alejandro E. Franco and Peter H. Schur	231
Antinuclear Antibodies, Rheumatoid Factor and C-Reactive Protein in Serum of Normal Women Using Oral Contraceptives	
Donald R. Kay, Giles G. Bole, Jr. and William J. Ledger	239
Factors Affecting Survivorship in Polymyositis. A Life-Table Study of 124 Patients	
Thomas A. Medsger Jr., Harry Robinson and Alfonse T. Masi	249
The Release of DNA into Serum and Synovial Fluid	
Graham R. V. Hughes, Selwyn A. Cohen, Robert W. Lightfoot Jr., Jay I. Meltzer and Charles L. Christian	259

Fibrinogen Degradation Products in Serum and Urine of Patients with Systemic Lupus Erythematosus. Relation to Renal Disease and Pathogenetic Mechanism	
<i>Bwogi R. Kanyerezi, Stephen K. Lwanga and Kurt J. Bloch</i>	267
Immunoglobulin G Subclasses of Antinuclear Antibodies and Renal Deposits. Comparison of Systemic Lupus Erythematosus, Drug-Induced Lupus and Rheumatoid Arthritis	
<i>Jovan N. Kacaki, Mary Lou Callerame, Stephen E. Blomgren and John H. Vaughan</i>	276
Hyperuricemia in American Samoans	
<i>L. A. Healey and Kenneth W. Jones</i>	283
Editorial	
Mycoplasmas	286
ARA News	289
Book Review	290

No. 3 (May-June)

Ankylosing Spondylitis and Spondylitis Accompanying Ulcerative Colitis, Regional Enteritis, Psoriasis and Reiter's Disease: A Comparative Study	
<i>Currier McEwen, Dominick DiTata, Clare Lingg, Anna Porini, Armine Good and Thomas Rankin</i>	291
The Human Fetal Synovium: Histology, Fine Structure and Changes in Organ Culture	
<i>Phoebe R. Krey, Alan S. Cohen, Charles B. Smith and Maxwell Finland</i>	319
Incidence of Antibodies to Double-Stranded RNA in Systemic Lupus Erythematosus and Related Diseases	
<i>Peter H. Schur, B. David Stollar, Alfred D. Steinberg and Norman Talal</i>	342
Navajo Arthritis—An Unusual, Acute, Self-Limited Disease	
<i>Albert L. Muggia, David A. Bennahum and Ralph C. Williams Jr.</i>	348
Response of Joints to Impact Loading: I. In Vitro Wear	
<i>Eric L. Radin and Igor L. Paul</i>	356
Communication	
Cooperating Clinics Committee	<i>William M. Fosdick</i> 363
<i>John L. Decker, L. Andrew Healey and William M. O'Brien</i>	364
Obituary	365
Abstracts	366
News of the Society	428

No. 4 (July-August)

Ultrastructural Studies of Renal Peritubular Amyloid Experimentally Induced in Guinea Pigs. II. Tubular Epithelial Cells	
<i>Alan S. Cohen and Tsuranobu Shirahama</i>	429

7S ₇ M-globulin in Rheumatoid Arthritis: Evaluation of its Clinical Significance	<i>David E. Stage and Mart Mannik</i>	440
Amyloidosis: A Study of Its Pathogenesis and the Role of Humoral Immunity	<i>John L. Abruzzo</i>	451
Myoglobinemia and Myoglobinuria in Patients with Myositis	<i>Lawrence J. Kagen</i>	457
The Human Incudomalleal Joint: Chondroid Articular Cartilage and Degenerative Arthritis	<i>Ruth Gussen</i>	465
Synovial Fluid pH, Lactate, Oxygen and Carbon Dioxide Partial Pressure in Various Joint Diseases. . . .	<i>Paul S. Treuhaft and Daniel J. McCarty</i>	475
Reactions of Systemic Lupus Erythematosus Sera with Histone Fractions and Histone-DNA Complexes	<i>B. David Stollar</i>	485
Scale Effects in Animal Joints. II. Thickness and Elasticity in the Deformability of Articular Cartilage	<i>William H. Simon</i>	493
Fibrinogen-Fibrin Breakdown Products in Pathologic Synovial Fluids: An Immunologic Study	<i>Johs. Gormsen, R. Bach Andersen and C. Feddersen</i>	503
Sequential Changes in Human Polymorphonuclear Leukocytes After Urate Crystal Phagocytosis: An Electron Microscopic Study	<i>H. Ralph Schumacher and Paulding Phelps</i>	513
Variations of Serum Concentrations and Half-Life of Salicylate in Patients with Rheumatoid Arthritis	<i>Harold E. Paulus, Mark Siegel, Edward Mongan, Ronald Okun and John J. Calabro</i>	527
The Effect of Chrysotherapy on Trace Metals in Patients with Rheumatoid Arthritis	<i>William Niedermeier, William W. Prillaman and James H. Griggs</i>	533
Glomerular Cytoplasmic Tubular Structures in Renal Biopsies of Patients with Systemic Lupus Erythematosus and Other Diseases	<i>Eric R. Hurd, Edwin Eigenbrodt, Howard Worthen, Stanley S. Strunk and Morris Ziff</i>	539
The Radiographic Pattern of Polyarthritis in Reiter's Syndrome	<i>Stephen D. Sholkoff, Morton G. Glickman and Howard L. Steinbach</i>	551
ARA News		556

No. 5 (September-October)

Gonococcal Arthritis in Two Patients with Active Lupus Erythematosus: A Diagnostic Problem	<i>John S. Edelen, Michael D. Lockshin and E. Carwile LeRoy</i>	557
Permeability of Human Synovial Membrane to Plasma Proteins: Relationship to Molecular Size and Inflammation	<i>Irving Kushner and Jo Anne Somerville</i>	560
Reciprocal Skin Grafts in Systemic Sclerosis (Scleroderma)	<i>James F. Fries, John E. Hoopes and Lawrence E. Shulman</i>	571

Juvenile Ankylosing Spondylitis	
<i>John R. Ladd, James T. Cassidy and William Martel</i>	579
Demonstration of Dissecting Popliteal Cysts by Joint Scans After Intra-Articular Isotope Injections	
<i>Melvin H. Levin, Robert A. Nurdyke and James J. Ball</i>	591
Experimental Allergic Myositis in Rats	
<i>Graeme Morgan, J. B. Peter and Brian B. Newbould</i>	599
Plaque-Forming Cell Response in Rats Receiving Mycobacterial Adjuvant on Day Zero and SRBC on Day Four	
<i>A. B. Stanfield, C. A. L. Stephens, Jr., Yvonne R. Clark, Margret T. Mazur and Helen V. Ratajczak</i>	610
Immunochemical Conditions Affecting the Measurement of DNA Antibodies Using Ammonium Sulfate Precipitation	<i>Theodore Pincus</i> 623
In Vivo and In Vitro Responses to Autologous IgG in Patients with Rheumatoid Arthritis	<i>Lorne A. Runge and John A. Mills</i> 631
Azathioprine in the Treatment of Systemic Lupus Erythematosus: A Controlled Study	
<i>Maurice Szejnbok, Ann Stewart, Herbert Diamond and David Kaplan</i>	639
The Relationship between Radiologic Changes and Osteoporosis of the Hand in Rheumatoid Arthritis	<i>Anders O. Bjelle and Bo E. Nilsson</i> 646
Observations on the Eosinophilia of Certain Patients with Rheumatoid Arthritis	<i>R. J. Winchester, S. D. Litwin, D. Koffler and H. G. Kunkel</i> 650
ARA News	666
Book Reviews	667

No. 6 (November-December)

Effects of Colchicine on Collagenase in Cultures of Rheumatoid Synovium	
<i>Edward D. Harris, Jr. and Stephen M. Krane</i>	669
Immunologic Studies of Juvenile Rheumatoid Arthritis	
<i>Nicolas E. Bianco, Richard S. Panush, J. Sydney Stillman and Peter H. Schur</i>	685
Studies of Antilymphocyte Antisera Produced Against Normal and Rheumatoid Arthritis Lymphocytes	
<i>Ralph C. Williams, Jr., Jean D. Emmons and Gonzalo P. Astorga</i>	697
Methods of Scoring the Progression of Radiologic Changes in Rheumatoid Arthritis: Correlation of Radiologic, Clinical and Laboratory Abnormalities	
<i>John T. Sharp, Martin D. Lidsky, Lois C. Collins and June Moreland</i>	706
A Defect in the Renal Excretion of Uric Acid in Filipinos	
<i>L. A. Healey and Pelagia S. Bayani-Sioson</i>	721
Tetracycline in the Treatment of Rheumatoid Arthritis: A Double Blind Controlled Study	
<i>Martha Skinner, Edgar S. Cathcart, John A. Mills and Robert S. Pinals</i>	727

Direct Lysis of Lymphocytes by Complement in Patients with Systemic Lupus Erythematosus	<i>Peter Stastny and Morris Ziff</i>	733
Serum and Synovial Fluid IgG, IgA and IgM Antigammaglobulins in Rheumatoid Arthritis	<i>Richard S. Panush, Nicolas E. Bianco and Peter H. Schur</i>	737
Isoniazid Acetylation Rate and Development of Antinuclear Antibodies Upon Isoniazid Treatment	<i>Donato Alarcón-Segovia, Eugenia Fishbein and Hilda Alcalá</i>	748
Arthritis Rounds		
Reiter's Disease, Ankylosing Spondylitis and Rheumatoid Arthritis Occurring Within a Single Family	<i>Armin E. Good</i>	753
Discussion: <i>William O'Brien, Denys K. Ford</i>		763
A Short Note		
The Source of the Inter-Alpha Trypsin Inhibitor in Pathologic Hyaluronateprotein	<i>Alfred Becker and John Sandson</i>	764
Reiter's Syndrome in Children: A Case Report and Review	<i>George N. Lockie and Gene G. Hunder</i>	767
Current Comment		
Leukocyte "Sense Organs"	<i>Eric E. Carlson and Ronald P. Messner</i>	773
Communication		
Failure of Rumalon to Increase Sulfate Incorporation by Articular Chondrocytes in Monolayer Culture	<i>Charles J. Malesmud and Leon Sokoloff</i>	779
Mycoplasma Hyorhina Swine Arthritis	<i>John L. Decker and Jerri A. Barden</i>	781
Brief Communication		
Absence of Australia Antigen and Antibody in Patients with Rheumatic Diseases	<i>Richard S. Panush, Elliott Alpert and Peter H. Schur</i>	782
Cytoplasmic Tubular Structures in Pigmented Villonodular Synovitis	<i>Zelma Molnar, Walter H. Stern and Gordon H. Stoltzner</i>	784
Editorial		
Tetracycline in RA	<i>Charles D. Tourtellotte</i>	788
Presidential Address		
Taking Steady Aim	<i>John H. Vaughan</i>	789
ARA News		795
Book Review		796
Author and Subject Index — 1971		797



Arti

Author Index

- Abrams NR: 384 (abstr)
 Abruzzo JL: 146 (abstr), 366 (abstr), 451
 Adams LE: 163 (abstr)
 Agnello V: 147 (abstr)
 Agudelo CA: 147 (abstr)
 Alarcón-Segovia D: 367 (abstr), 748
 Albo D: 105
 Albright JA: 148 (abstr)
 Alcalá Hilda: 748
 Alpert E: 782
 Altman RD: 367 (abstr)
 Andersen RB: 503
 Anderson LG: 368 (abstr)
 Anderson TO: 369 (abstr)
 Andrews R: 368 (abstr)
 Aoki T: 174 (abstr)
 Araujo F: 149 (abstr)
 Asofsky R: 368 (abstr)
 Astorga GP: 697
 Athanasias P: 401 (abstr)
 Atkins C: 148 (abstr)
 Atoyntan T: 369 (abstr)
 Atrá E: 179 (abstr)
 Aufrang OE: 418 (abstr)
 Austen KF: 392 (abstr), 410 (abstr)
- Bach, GL: 369 (abstr)
 Bailey JP Jr: 403 (abstr), 407 (abstr)
 Ball, JJ: 591
 Barden JA: 193, 202, 781
 Barnett EV: 149 (abstr), 149 (abstr)
 Bartfeld H: 369 (abstr)
 Barth WF: 394 (abstr)
 Bartholomew BA: 185 (abstr), 415 (abstr)
 Batt MT: 161 (abstr)
 Baum, J: 12, 135, 426 (abstr)
 Bayani-Sioson PS: 721
 Beardmore TD: 150 (abstr), 169 (abstr)
 Beasley RP: 150 (abstr), 423 (abstr)
 Becker A: 764
 Beetham WP Jr: 419 (abstr)
 Bell DA: 369 (abstr)
 Benedek TG: 403 (abstr)
 Bennahum DA: 348
 Bennett PH: 384 (abstr)
 Berney S: 151 (abstr), 376 (abstr)
 Bernhard GC: 389 (abstr), 406 (abstr)
 Bertine JR: 175 (abstr)
- Bhorade M: 369 (abstr)
 Bianco NE: 178 (abstr), 370 (abstr), 685, 737
 Bierer WF: 182 (abstr)
 Biesiadecki TF: 150 (abstr)
 Birtwell WM: 387 (abstr)
 Bishko F: 151 (abstr), 370 (abstr), 392 (abstr)
 Bitter F: 152 (abstr)
 Bitter T: 152 (abstr)
 Bjelle AO: 646
 Blakely JA: 371 (abstr)
 Bland JH: 151 (abstr), 152 (abstr)
 Blechman WJ: 406 (abstr)
 Bloch KJ: 267, 388 (abstr)
 Blomgren SE: 276
 Bluestone R: 371 (abstr), 374 (abstr)
 Bole GG Jr: 189 (abstr), 239, 393 (abstr)
 Bollet AJ: 144, 403 (abstr), 407 (abstr)
 Borel Y: 67
 Bovy, Ruth A: 172 (abstr)
 Bowman Barbara J: 383 (abstr)
 Brackett RC: 19
 Branson-Geokas Barbara: 152 (abstr)
 Briccetti AB: 372 (abstr)
 Britton MC: 87
 Brooke MH: 168 (abstr)
 Brown EM: 188 (abstr)
 Brown JC: 153 (abstr)
 Brubaker LH: 372 (abstr)
 Brunner Carolyn M: 373 (abstr)
 Butler WT: 373 (abstr)
 Bywaters EGL: 153 (abstr), 371 (abstr)
- Calabro JJ: 154 (abstr), 527
 Callera MaryLou: 276
 Callis G: 419 (abstr), 420 (abstr)
 Capra JD: 154 (abstr)
 Cardin C: 179 (abstr)
 Carlson EE: 773
 Carney JA: 177 (abstr)
 Cassidy JT: 579
 Castor CW: 41, 55
 Cathcart ES: 372 (abstr), 727
 Champion D: 374 (abstr), 374 (abstr), 375 (abstr)
 Chandler RW: 154 (abstr)
 Chang CC: 172 (abstr)
 Chase GR: 405 (abstr)
 Chase S: 176 (abstr)
 Cheng C: 375 (abstr)

- Chrisman OD: 376 (abstr)
 Christian CL: 180 (abstr), 259, 378 (abstr)
 Chu AB: 183 (abstr)
 Chu TJ: 416 (abstr)
 Chused TM: 155 (abstr)
 Clark Yvonne R: 610
 Cobb J: 173 (abstr)
 Cohen AS: 155 (abstr), 259, 319, 372 (abstr), 397 (abstr), 429
 Cohen LD: 186 (abstr)
 Cohen MB: 32
 Cohen SH: 376 (abstr)
 Cole BC: 422 (abstr)
 Collins Lois C: 706
 Colwell JA: 413 (abstr)
 Comerford FR: 155 (abstr)
 Conn D: 156 (abstr)
 Cook Elizabeth H: 403 (abstr)
 Cooke, TD: 156 (abstr), 377 (abstr), 417 (abstr)
 Cooper NR: 180 (abstr)
 Cracchiolo Andrea III: 157 (abstr)
 Craig CP: 390 (abstr)
 Cruz-Santiago Susano de la: 397 (abstr)
 Cummings NA: 157 (abstr), 368 (abstr)
- Dalgard D: 202
 Damiano V: 160 (abstr)
 David JR: 178 (abstr)
 Davis JS IV: 161 (abstr), 373 (abstr), 377 (abstr), 388 (abstr)
 Davis W: 176 (abstr)
 DeBracco Maria: 378 (abstr)
 Decker JL: 193, 202, 364, (abstr), 781
 DeHoratius R: 378 (abstr)
 DeJesus D: 153 (abstr)
 DeLuque O: 187 (abstr)
 Denko CW: 158 (abstr), 379 (abstr)
 Deodhar S: 177 (abstr)
 Deshmukh K: 176 (abstr)
 Diamond H: 158 (abstr), 379 (abstr), 380 (abstr), 639
 DiTata D: 291
 Dorey LR: 159 (abstr)
 Dorfman H: 400 (abstr)
 Dorstewitz Emily L: 41, 55
 Downey JA: 380 (abstr), 381 (abstr)
 Dubois EL: 152 (abstr)
 Dyck P: 156 (abstr)
- Edelsen JS: 557
 Ehrlich GE: 376 (abstr), 381 (abstr)
 Eigenbrodt E: 539
 Ein D: 175 (abstr)
- Eisenberg JW: 147 (abstr)
 Elbaor JE: 381 (abstr)
 Ellison MR: 212
 Emkey RD: 396 (abstr)
 Emmons JD: 697
 England JPS: 422 (abstr)
 Englund, DW: 182 (abstr)
 Ennis RS: 202
 Epstein MJ: 152 (abstr)
 Epstein WV: 159 (abstr), 382 (abstr)
 Esterly J: 405 (abstr)
 Evans AS: 160 (abstr)
- Farrington Edna: 381 (abstr)
 Feddersen C: 503
 Feldman Elaine: 379 (abstr)
 Ferreyra A: 19
 Ferzoco Linda: 396 (abstr)
 Fink C: 391 (abstr)
 Finland M: 319
 Fishbein Eugenia: 367 (abstr), 748
 Flatt AE: 212
 Fleischmajer R: 160 (abstr)
 Fosdick WM: 161 (abstr), 364
 Fox IH: 169 (abstr)
 Fraga A: 405 (abstr)
 Franco AE: 162 (abstr), 231, 382 (abstr)
 Frewin DB: 380 (abstr)
 Freyberg R: 117, 402 (abstr)
 Fries JF: 396 (abstr), 571
 Friou GJ: 148 (abstr), 152 (abstr)
 Fudenberg HH: 400 (abstr), 404 (abstr)
- Gabel RM: 411 (abstr)
 Garfield Jane W: 182 (abstr)
 Garrett Martha A: 388 (abstr)
 Gentry LO: 149 (abstr)
 Gerber DA: 162 (abstr), 383 (abstr)
 Gleich GJ: 389 (abstr)
 Glenn EM: 383 (abstr)
 Glick EN: 383 (abstr)
 Glick JM: 163 (abstr)
 Glickman MC: 551
 Glueck CJ: 384 (abstr)
 Godwin JT: 399 (abstr)
 Gofton JP: 384 (abstr)
 Goldberg LS: 157 (abstr), 399 (abstr)
 Goldman JA: 163 (abstr), 384 (abstr)
 Goldstein M: 151 (abstr)
 Good A: 753
 Good AE: 291, 385 (abstr)
 Gordon DA: 419 (abstr)
 Gormsen J: 503

AUTHOR INDEX

- Gottlieb NL: 164 (abstr), 385 (abstr), 386 (abstr)
- Gowans JDC: 134
- Granda JL: 117, 173 (abstr), 223, 402 (abstr)
- Grayzel AI: 164 (abstr)
- Green FA: 386 (abstr)
- Griggs JH: 533
- Groeth-Dittrich Marsha F: 419 (abstr), 420 (abstr)
- Gross J: 388 (abstr)
- Gussen Ruth: 465
- Haberman E: 164 (abstr)
- Haberman JoAnn: 387 (abstr)
- Hahn BH: 165 (abstr), 387 (abstr)
- Haïm Thérèse: 179 (abstr)
- Halberstam D: 158 (abstr), 380 (abstr)
- Hall AP: 382 (abstr)
- Hamerman D: 183 (abstr)
- Hanson V: 159 (abstr), 170 (abstr)
- Harley Naomi: 392 (abstr)
- Harper E: 388 (abstr)
- Harris BK: 109
- Harris ED Jr: 130, 669
- Hartog M: 371 (abstr)
- Hashimoto K: 421 (abstr)
- Healey LA: 27, 138, 283, 364, 424 (abstr), 670, 721
- Heimer R: 366 (abstr)
- Herd JK: 165 (abstr), 177 (abstr)
- Herman JH: 166 (abstr), 384 (abstr)
- Hess Evelyn V: 163 (abstr), 166 (abstr)
- Heuser Eva T: 170 (abstr)
- Hielman JD: 425 (abstr)
- Highton TC: 404 (abstr)
- Holborow EJ: 153 (abstr)
- Hollander JL: 188 (abstr), 416 (abstr)
- Hollinger FB: 1
- Hollingsworth JW: 166 (abstr)
- Holt PJL: 371 (abstr)
- Hoopes JE: 571
- Horwitz DA: 373 (abstr), 388 (abstr)
- Haupt JB: 167 (abstr)
- Howard A: 374 (abstr), 374 (abstr)
- Howell DS: 167 (abstr), 367 (abstr), 410 (abstr)
- Huang Nancy N: 150 (abstr)
- Hughes GRV: 259
- Hunder GG: 389 (abstr), 767
- Hunt M: 167 (abstr)
- Hurd ER: 377 (abstr), 539
- Hussey CV: 389 (abstr)
- Hylton Martha B: 368 (abstr)
- Irvin WS: 165 (abstr), 180 (abstr), 372 (abstr), 390 (abstr), 405 (abstr)
- Isaacson AS: 159 (abstr)
- Ishmael WK: 390 (abstr)
- Jacobs ME: 390 (abstr)
- Janis R: 164 (abstr)
- Jasin HE: 156 (abstr), 377 (abstr)
- Jelenik Joan G: 403 (abstr)
- Johns TR: 391 (abstr)
- Johnson RL: 391 (abstr)
- Jones KW: 283
- Jones RE: 422 (abstr)
- Joseph BS: 391 (abstr)
- Jourdan GW: 393 (abstr)
- Justh GO: 168 (abstr)
- Kacaki JN: 276
- Kagen LJ: 169 (abstr), 457
- Kantor TC: 392 (abstr)
- Kanyerezi BR: 267
- Kaplan AP: 392 (abstr)
- Kaplan D: 158 (abstr), 380 (abstr), 639
- Kaplan H: 168 (abstr)
- Kapusta MA: 393 (abstr)
- Katz R: 171 (abstr)
- Kauffman MS: 376 (abstr)
- Kay AB: 392 (abstr)
- Kay DR: 239, 393 (abstr)
- Kelley WN: 150 (abstr), 169 (abstr), 181 (abstr)
- King Elizabeth: 394 (abstr)
- Kippen I: 190 (abstr)
- Kirschbaum B: 152 (abstr)
- Klinenberg JR: 190 (abstr), 394 (abstr)
- Kluge Ronica M: 394 (abstr)
- Koffler D: 147 (abstr), 650
- Koga T: 395 (abstr), 395 (abstr), 408 (abstr)
- Kolterman OG: 396 (abstr)
- Kondon J: 148 (abstr)
- Konen T: 179 (abstr)
- Koster Karen G: 170 (abstr)
- Krane SM: 396 (abstr), 669
- Krey, Phoebe R: 319, 397 (abstr)
- Krueger RC: 163 (abstr)
- Kunkel HG: 147 (abstr), 650
- Kushner I: 560
- Ladd JR: 579
- Laimans Marta: 413 (abstr)
- Laks MM: 419 (abstr), 420 (abstr)
- Lane JM: 170 (abstr)
- Lanyi VF: 397 (abstr)
- Lazarus R: 158 (abstr), 380 (abstr)
- Leddy JP: 369 (abstr)
- Ledger WJ: 239
- Leers WD: 409 (abstr)

- Le Roy EC: 380 (abstr), 381 (abstr), 557
 Levin MH: 591
 Lewis Marilyn R: 75
 Lewis RM: 67
 Levy J: 171 (abstr)
 Lidsky MD: 1, 373 (abstr), 706
 Lies RB: 398 (abstr)
 Lightfoot RW Jr: 259
 Lindsley Carol B: 398 (abstr)
 Lingg Claire: 291
 Lippiello L: 400 (abstr)
 Lischner H: 150 (abstr)
 Litwin A: 163 (abstr)
 Litwin SD: 650
 Lochead JA: 171 (abstr)
 Lockie GN: 767
 Lockshin MD: 172 (abstr), 557
 Lorber A: 32, 172 (abstr)
 Lotke PA: 173 (abstr)
 Louie JL: 399 (abstr)
 Lwanga SK: 267

 Martel W: 579
 Martens M: 176 (abstr)
 MacKenzie MR: 400 (abstr)
 Madruga JF: 167 (abstr)
 Malawista SE: 175 (abstr), 425 (abstr)
 Malemud CJ: 779
 Mankin HJ: 400 (abstr)
 Mannik M: 184 (abstr), 440
 Marchisello PJ: 290
 Marienfeld D: 405 (abstr)
 Marin DD: 401 (abstr)
 Marsh Joanne M: 401 (abstr)
 Marshall G: 109
 Martin JH: 387 (abstr)
 Mascarenhas BR: 402 (abstr)
 Masi AT: 154 (abstr), 174 (abstr), 249, 403 (abstr), 421 (abstr)
 Mattioli Martha: 402 (abstr)
 Mazur Margret T: 610
 McCarty DJ: 75, 173 (abstr), 188 (abstr), 189 (abstr), 475
 McCoy JM: 399 (abstr)
 McCrae CR: 186 (abstr)
 McDewitt HO: 396 (abstr)
 McDuffie F: 156 (abstr)
 McEwen C: 291
 McLean ME: 399 (abstr)
 Meade Jean C: 169 (abstr)
 Mealing HG Jr: 403 (abstr)
 Medsger TA Jr: 174 (abstr), 249, 403 (abstr)
 Mellors RC: 174 (abstr)

 Meltzer JI: 259
 Meltzer M: 392 (abstr)
 Messner RP: 175 (abstr), 398 (abstr), 403 (abstr), 773
 Michaeli D: 404 (abstr)
 Mikulla JM: 424 (abstr)
 Mills DM: 404 (abstr)
 Mills JA: 631, 727
 Mills K: 406 (abstr)
 Mintz G: 405 (abstr)
 Mitchell MS: 175 (abstr)
 Mittal KK: 373 (abstr)
 Molinari JA: 175 (abstr)
 Molnar Zelma: 784
 Mongan E: 375 (abstr), 527
 Moreland June: 706
 Morgan G: 599
 Morris AD: 405 (abstr)
 Moskowitz RW: 109, 176 (abstr)
 Muggia AL: 348
 Muller FJ: 167 (abstr)
 Muirden KD: 406 (abstr)
 Müller-Eberhard HJ: 410 (abstr)
 Multz CV: 406 (abstr)

 Nandi PK: 181 (abstr)
 Natali PG: 416 (abstr)
 Natvig JB: 175 (abstr)
 Nedwich A: 160 (abstr)
 Newbould BB: 599
 Nicholas JJ: 407 (abstr)
 Niederman JC: 160 (abstr)
 Niedermeier W: 533
 Nilsson BE: 646
 Nimni M: 176 (abstr)
 Nordyke RA: 591
 Nosheny SZ: 376 (abstr)
 Novack SN: 408 (abstr)

 O'Brien WM: 364
 O'Connor G: 151 (abstr), 152 (abstr)
 O'Duffy JD: 177 (abstr)
 Ogra PL: 177 (abstr)
 Ogryzlo MA: 167 (abstr), 419 (abstr)
 O'Hare Maureen B: 407 (abstr)
 Okun R: 375 (abstr), 527
 Osterland CK: 165 (abstr)
 Owens Sally L: 407 (abstr)

 Pan Sylvia F: 407 (abstr)
 Panush RS: 178 (abstr), 370 (abstr), 685, 737, 782
 Parker F: 138
 Parker RH: 96

AUTHOR INDEX

- Paul IL: 126, 356
Paulus HE: 178 (abstr), 375 (abstr), 527
Pearson C: 178 (abstr), 191 (abstr), 375 (abstr), 395 (abstr), 395 (abstr), 408 (abstr), 408 (abstr)
Peltier AP: 179 (abstr)
Percy JS: 401 (abstr)
Perry HM Jr: 165 (abstr)
Persellin RH: 375 (abstr)
Peter JB: 179 (abstr), 599
Petrescu A: 401 (abstr)
Petz LD: 180 (abstr)
Phelps P: 368 (abstr), 415 (abstr), 418 (abstr), 513
Phillips PE: 180 (abstr)
Pinals RS: 667, 727
Pincus T: 623
Pita JC: 167 (abstr), 367 (abstr), 410 (abstr)
Platt D: 175 (abstr)
Plotz CM: 414 (abstr)
Pollock BH: 424 (abstr)
Porini Anna: 291
Posner AS: 223
Postlethwaite AE: 181 (abstr)
Preston TA: 385 (abstr)
Prillaman WW: 533
Pruzanski W: 409 (abstr), 419 (abstr)
- Quagliata F: 370 (abstr), 426 (abstr)
Quismorio FP: 148 (abstr), 152 (abstr)
Quismorio SP: 170 (abstr)
- Radin EL: 126, 186 (abstr), 356
Ranawat CS: 117, 223
Rankin T: 291
Ratajczak Helen V: 610
Rawls WE: 1
Rawson AJ: 416 (abstr)
Reading A: 374 (abstr)
Reaven GM: 396 (abstr)
Recart S: 404 (abstr)
Reichlin M: 402 (abstr)
Remington JS: 149 (abstr)
Restifo RA: 406 (abstr)
Rigby P: 383 (abstr)
Ritchie JC: 41, 55
Rivelis M: 117
Robinson DR: 181 (abstr)
Robinson H: 154 (abstr), 249, 403 (abstr)
Rocha Maria J: 413 (abstr)
Rocklin RE: 178 (abstr)
Rodnan GP: 168 (abstr), 403 (abstr), 407, (abstr), 425 (abstr)
Rommel FA: 375 (abstr)
Rossen RD: 373 (abstr)
- Roth SH: 182 (abstr)
Rothbard S: 409 (abstr)
Rothfield Naomi F: 160 (abstr), 182 (abstr)
Ruddy S: 410 (abstr)
Runge LA: 631
- Sammarco J: 176 (abstr)
Samuelson C: 105
Sandson J: 764
Sapolsky AI: 367 (abstr), 410 (abstr)
Sarkissian E: 375 (abstr)
Saville PD: 411 (abstr)
Sbarbaro JL: 188 (abstr)
Schaeffer WI: 151 (abstr)
Schaller Jane: 398 (abstr), 411 (abstr), 412 (abstr), 412 (abstr)
Scher I: 183 (abstr)
Schmid FR: 96, 407 (abstr), 413 (abstr)
Schmidt Marcia C: 394 (abstr)
Schumacher HR: 513
Schur PH: 87, 162 (abstr), 178 (abstr), 231, 370 (abstr), 685, 737, 782
Schwartz A: 109
Schwartz RS: 134
Schumacher HR: 147 (abstr)
Sharp GC: 165 (abstr), 180 (abstr), 405 (abstr)
Sharp JT: 1, 287, 373 (abstr), 706
Sherry RG: 390 (abstr)
Sheth N: 371 (abstr)
Shirahama T: 429
Shirai T: 174 (abstr)
Sholkoff SD: 551
Shulman LE: 571
Siegel M: 527
Silberschmidt Ruth: 152 (abstr)
Simon WH: 493
Singer JM: 183 (abstr)
Sisk CW: 387 (abstr)
Skinner M: 727
Smiley JD: 171 (abstr)
Smith CB: 319
Smith EM: 164 (abstr), 385 (abstr), 386 (abstr)
Smith Patricia M: 164 (abstr), 385 (abstr), 386 (abstr)
Smith Susan F: 41, 55
Smyth CJ: 415 (abstr)
Smythe HA: 371 (abstr), 384 (abstr), 413 (abstr), 419 (abstr)
Sokoloff L: 779
Sokolow J: 397 (abstr)
Solomon SD: 173 (abstr)
Somerville JoAnne: 560
Spiera H: 414 (abstr)

AUTHOR INDEX

- Stage D: 184 (abstr) , 440
- Stanfield AB: 610
- Stastny P: 184 (abstr) , 414 (abstr) , 733
- Steele AD: 415 (abstr)
- Steigerwald JC: 185 (abstr)
- Steinbach HL: 551
- Steinberg AD: 187 (abstr) , 342, 390 (abstr)
- Steinberg. ME: 170 (abstr) , 186 (abstr)
- Steiner Paula: 384 (abstr)
- Stempel K: 179 (abstr)
- Stephens CAL Jr: 610
- Stern M: 396 (abstr)
- Stern WH: 784
- Stevens J: 144
- Stewart Ann: 639
- Stichm R: 171 (abstr)
- Stillman JS: 178 (abstr) , 370 (abstr) , 685
- Stollar BD: 342, 485
- Stoltzner GH: 784
- Stolzer BL: 424 (abstr)
- Straub LR: 117
- Strong JS: 415 (abstr)
- Stroud RM: 378 (abstr)
- Strunk SS: 539
- Sun DCH: 182 (abstr)
- Swann DA: 186 (abstr)
- Sztejnok M: 639
- Talal N: 155 (abstr) , 187 (abstr) , 342, 368 (abstr) , 390 (abstr)
- Tan EM: 416 (abstr)
- Tan Margaret: 382 (abstr)
- Tan RGB: 371 (abstr)
- Tanaka A: 395 (abstr)
- Tanzer ML: 187 (abstr)
- Tapanes FJ: 416 (abstr)
- Tateishi H: 417 (abstr)
- Terasaki PI: 149 (abstr)
- Thompson GR: 19
- Tourtellotte CD: 150 (abstr) , 387 (abstr) , 788
- Trend Beth: 420 (abstr)
- Treuhaft PS: 75, 188 (abstr) , 475
- Troup G: 398 (abstr)
- Troyer H: 417 (abstr)
- Turmail GA Jr: 404 (abstr)
- Turner RH: 188 (abstr) , 418 (abstr)
- Tse Rose L: 418 (abstr)
- Urowitz MB: 419 (abstr)
- Usher MS: 393 (abstr)
- Valle L: 405 (abstr)
- Vande Sande B: 191 (abstr) , 395 (abstr) , 408 (abstr)
- Vasquez C: 419 (abstr)
- Vaughan JH: 276, 369 (abstr) , 789
- Vavrik M: 371 (abstr)
- von Baeyer E: 158 (abstr)
- Vyden JK: 419 (abstr) , 420 (abstr)
- Waisman J: 394 (abstr)
- Wald N: 407 (abstr)
- Walker Sara E: 189 (abstr)
- Wallingford WR: 189 (abstr) , 420 (abstr)
- Wanger Nancy S: 421 (abstr)
- Ward JR: 105, 422 (abstr)
- Ward PA: 190 (abstr)
- Wardlaw AC: 409 (abstr)
- Warner N: 400 (abstr)
- Watanabe M: 401 (abstr)
- Watson RF: 409 (abstr)
- Webb FWS: 422 (abstr)
- Wedgwood RJ: 412 (abstr)
- Weinberger H: 419 (abstr) , 420 (abstr)
- Weir DD: 423 (abstr)
- Weisser PA: 126
- Weissman G: 191 (abstr)
- Whitehouse DJ: 191 (abstr)
- Whitehouse MW: 190 (abstr) , 191 (abstr)
- Whorton E: 152 (abstr)
- Wilde AH: 423 (abstr)
- Willerson JT: 202
- Williams RC Jr: 175 (abstr) , 348, 378 (abstr) , 697
- Willkens RF: 150 (abstr) , 423 (abstr)
- Wilkens RF: 150 (abstr)
- Wilske KR: 27, 138, 424 (abstr)
- Winchester RJ: 147 (abstr) , 650
- Winklestein A: 424 (abstr) , 425 (abstr)
- Woessner JF: 410 (abstr)
- Worthen H: 539
- Wright DG: 425 (abstr)
- Yassinger S: 407 (abstr)
- Yeaton R: 408 (abstr)
- Zane S: 406 (abstr)
- Zarins A: 400 (abstr)
- Ziff M: 156 (abstr) , 171 (abstr) , 184 (abstr) , 377 (abstr) , 391 (abstr) , 414 (abstr) , 417 (abstr) , 539, 732
- Zivkovic M: 426 (abstr)
- Zurier RB: 191 (abstr) , 426 (abstr)
- Zvaifler NJ: 190 (abstr) , 427 (abstr)

Subject Index

- β -N-acetylglucosaminidase of skin, 184
- Acetylsalicylic acid
 - comparison with placebo in RA, 406
 - effect on indomethacin serum levels, 375
- Acromegalic arthropathy
 - clinical, radiologic and histologic picture, 371
 - growth hormone and salicylate effects on lesions, 374
- Adjuvant arthritis
 - antigen responsible for, 395
 - correlation with delayed skin reactivity to Wax D, 395
 - inhibition of, 191
 - lymphoid cell distribution, 370
 - plaque-forming cell response, 610-622
 - Prostaglandin E₁ suppression of, 426
- Agammaglobulinemia, congenital, sex linked in RA, 150
- Alkylating agents (*See thiotepa, nitrogen mustard*)
- Allergic encephalitis, inhibition of, 191
- Allergic thyroiditis, inhibition of, 191
- Allison-Ghormley's nodules in Mycoplasma-induced arthritis, 202-211
- Allopurinol
 - induced orotic aciduria and orotidinuria, 150
 - effect on pyrimidine synthesis in cultured fibroblasts, 150, 169
- American Rheumatism Association
 - News of the Association, 145, 289, 428, 556, 666, 795
 - proceedings of the Interim Scientific Session, January 8-9, 1971, 146-192
 - proceedings of the Interim Scientific Session, Annual Scientific Meeting, June 14-15, 1971, 366-427
- Amyloid, renal peritubular, induced experimentally, 429-439
- Amyloidosis
 - lymphocyte transformation, 372
 - pathogenesis and humoral immunity, 146, 451-456
- Anemia, hypoproliferative in giant cell arteritis, 27
- Anergy
 - lymphocyte-monocyte defect in, 399
 - viruses induced, 390
- Animal models
 - adjuvant arthritis, 370, 610, 622
 - amyloidosis in hamsters, 146
 - autoimmune disease in NZB/NZW mice, 155
 - diffuse pulmonary granulomas, 378
 - gouty arthritis, 394
- Mycoplasma arthritides, 422
- Mycoplasma hyorhinis induced arthritis, 193-201, 202-211
- NZB/BW mice, antigen uptake, 153
- osteoarthritis, 176
- osteoporosis, 170
- polymyositis, experimental allergic myositis, 599-609
- rubella induced chronic arthritis, 165
- Anionic detergents, denaturation of collagen, 180-181
- Antiantibody activity of monovalent IgM, 400
- Antibiotics in septic arthritis, 96-104
- Antibody
 - anti-RNA, inhibition by RNA, 187
 - Australia antigen in RA, 782-783
 - DNA, adoptive transfer, 155
 - DNA, counter immunoelectrophoresis, 377
 - DNA, Farr ammonium sulfate technic for, 623-630
 - double stranded RNA in SLE, 342-347
 - EB and other viral in SLE, 160
 - incidence to denatured collagen in RA, 404
 - lymphocytotoxic antibodies in SLE and RA, 149, 373-374
 - lysosomal in SLE, 369
 - measles, rubella, mumps, parainfluenza Type 1 and 2 in connective tissue diseases, 1
 - precipitating, levels in hypocomplementemia, 231-237
 - specificity and structure of IgG and IgM RF, 154
 - viral antigen in RA, 154
- Antigammaglobulin
 - IgA, IgG and IgM in RA, 737-747
 - serum and synovial fluid IgG, IgA and IgM in JRA, 685-696
 - serum IgA and IgG in psoriatic arthritis, 416
- Antigen
 - aggregated human gammaglobulin uptake, 153
 - Australia antigen, absence in RA, 782-783
 - hepatitis associated Australia antigen in SLE, 367
 - histocompatibility in RA, 398
 - induced RA, local immunoglobulin and antibody synthesis, 156
 - isotypic and allotypic, 175
 - lysosomal in SLE, 369
 - nuclear:
 - cellular immunity to in SLE, 163
 - immune responses to in SLE, 165, 368
 - in RA, 416

- RNA reactive with SLE sera, 402
- Antigen-induced arthritis, 186
- Antiglobulin, elution from rheumatoid synovium, 157
- Antilymphocyte antisera, 697-705
- Antinuclear antibody
development during Isoniazid therapy, 748-752
182
elution from rheumatoid synovium, 157
false-positive toxoplasma fluorescent antibody tests due to, 149
IgG subclasses, 277-282
in hypocomplementemia, 231-237
oral contraceptives and, 239-248
- Anti-RNA antibodies, 187
- Aortic insufficiency
in ankylosing spondylitis, 385
in Reiter's syndrome, 178
- Apophyseal joints, involvement in spondylitis, 291-318
- Arteritis
Giant cell
anemia as presenting manifestation, 27
clinical manifestations of, 424
polymyalgia and, 138-141
- Autoantibodies in SLE, 180
- Arthritis
associated with inflammatory bowel disease, 398
complicating rubella vaccination, 19
congenital agammaglobulinemia in, 150
early clue to cancer, 154
gouty, animal model for, 394
induced rubella associated with, 177
Mycoplasma hyorhinis induced, 193-201
Navajo, 348-355
pneumococcal, joint calcification in, 394
presenting manifestation of malignancy in children, 412
Rubella-induced chronic, 164
thermography in, 387
tuberculosis, diagnostic features, 151
- Arthropathy, acromegalic, 371
- Arthroplasty
knee in JRA, 159
knee, venographic study, 376
metallic prosthesis, evaluation of, 188
- Australia antigen
absence in RA, 782-783
in SLE, 367
- Autoimmune disease, low-dose cyclophosphamide in, 189
- Avascular necrosis of femoral head, 163
- Azathioprine
combination with prednisone and AZ-PR, 387
double-blind crossover study, 419
in adult polymyositis, 405
in RA and SLE, 134
in SLE, 639-645
in steroid resistant patient, 405
- Bactericidal activity of RA sera and synovial fluid, 409
- Behcet's disease, 177
- Blood flow in RA
effect of propranolol on, 420
- Bone
erosions, 423
erosions, fusion and demineralization in hypocomplementemia, 231-237
fetal, release of calcium by synovial culture media, 396
mass, effects of diphosphonate EHDP, 170
- Book Reviews:
Boyle JA: Clinical Rheumatology. *Rev by* LA Healey, 668
Clinical Rheumatology. Edited by M Mason, HLF Currey. *Rev by* RS Pinals, 667
Frankel VH, Burstein AH: Orthopaedic Biomechanics. *Rev by* J Stevens, 144
Lubrication and Wear in Joints. Edited by V Wright. *Rev by* L Sokoloff, 796
Sokoloff L: The Biology of Degenerative Joint Disease. *Rev by* AJ Bollet, 144
Bronchiectasis in RA, 135-137
Bronchitis in RA, 135-137
- Calcification, joint, in pneumococcal arthritis, 394
- Calcium crystal deposition disease, 109-116
- Calcium pyrophosphate dihydrate effect on phagolysosomes, 420
- Calcium release from ⁴⁵Ca labeled fetal bone, 396
- Cancer, arthritis as early clue to, 154
- Carbohydrate metabolism in gout, 379
- Cartilage
articular, biochemical and metabolic abnormalities in osteoarthritis, 400
articular, permeability changes induced by proteolytic enzymes, 173
Cathepsin-D in normal aging, 367, 411
chondroid articular and degenerative arthritis, 464-474
effect of Rumalon on in vitro sulfate incorporation, 779-780
lesions, effect of growth hormone and salicylate on, 376

SUBJECT INDEX

- mineral growth inhibitor, 168
- narrowing, incidence in hypocomplementemia, 231-237
- pannus-free, 417
- persistent antigen in immunologically induced synovitis, 377
- prostaglandins, essential fatty acids and 35 S incorporation, 379
- response to impact loading, 356-362
- thickness and elasticity in deformability, 493-502
- Cathepsin-D
 - in aging normal and osteoarthritic cartilage, 367
 - in rheumatoid and regenerated synovium, 223-230
 - subunit structure of multiple forms, 410
- Cell-mediated immunity
 - in SLE, 152, 369
 - mechanisms in relapsing polychondritis, 166
 - parameters of in scleroderma, 425
- Cephaloridine in septic arthritis, 96-104
- Chemotaxis
 - activity of Kallekrein for human neutrophils, 392-393
 - in SLE, Felty's syndrome and spondylitis, 426
 - leukocyte, modified by RF, 388
- Chloroquine, effect on lymphocyte cytotoxin, 179
- Chondrocytes
 - early changes in cartilage degeneration, 417
 - effect of Rumalon on sulfate incorporation, 779-780
- Chondromalacia, effect of growth hormone and salicylate on, 376
- Choroid plexus in SLE, 148
- Chromosome abnormalities in scleroderma, 407
- Chrysotherapy
 - 197 Au myochrysine in gold excretion, 386
 - effect on trace metals, 533-538
 - gold excretion and clinical status in RA, 385
 - gold pharmacodynamics in RA, 392
 - tissue and fluid gold levels in RA, 164
- Coagulation changes in SLE, 389
- Colchicine
 - combination with dexamethasone in polycystic disease, 211-217
 - effect acid phosphatase release, 368
 - effect on lysosomal enzyme release, 368
 - effect on phagocytosis of starch and urate crystals, 189
 - inhibition of lysosomal enzyme release from rheumatoid synovium, 425
 - periarticular inflammation in sarcoidosis, 130-133
 - stimulation of collagenase release, 669-684
- Colitis
 - arthritis associated with ulcerative, 398
 - spondylitis accompanying ulcerative, 291-318
- Collagen
 - aldehydes in distribution changes during maturation, 176
 - antibodies to in RA, 404
 - denaturation of by anionic detergents, 181
 - fibrodysplasia ossificans progressiva, 151
 - human tissue immunofluorescent studies, 409
 - intermolecular crosslinks, 187
- Collagenase
 - colchicine stimulation of release from rheumatoid synovium, 669-684
 - tadpole, 388
- Complement
 - C1 inhibition by gammaglobulin mediated phagocytosis, 403
 - C1 in synovial fluid, 378
 - C1q, different binding substances in SLE, 382
 - C1q, IgG protein-binding in SLE, 159
 - C1q, interference with RF agglutination, 375
 - C3 hypercatabolism in RA and SLE, 410
 - C3 leukotactic factors and cleaving enzymes in synovial fluid, 190
 - effect on DNA binding activity, 626
 - fixation of cryoprecipitable complexes in Felty's syndrome, 427
 - hemolytic in RA, 213-237
 - hemolytic and complement components in JRA, 370
 - levels in JRA, 370-371
 - low levels in RA, 162
 - lymphocyte lysis in SLE, 414, 733-736
 - role in immune and inflammatory responses, 773-776
 - serum and CSF levels in SLE, 180
 - system in rheumatoid synovitis, 87-95
- Complement-fixation with platelets in SLE, 184
- C3 cleaving enzyme, 190
- Connective tissue
 - activators:
 - abnormalities of cultured rheumatoid synovium, 55-66
 - CTAP, nature, specificity, measurement and distribution, 41-54
 - diseases, virus antibody studies in, 180-181
 - metabolism in health and disease, 394
- Contraceptives, oral, effect on antinuclear antibody, 239-248
- Cooperating Clinics Committee, 363-364
- Cortisol
 - exogenous activator induced unresponsiveness, 55-66

- inhibition of lysosomal enzyme mobilization and release, 425
- Counter immunoelectrophoresis DNA and anti-DNA determinations, 377
- C-reactive protein effect of oral contraceptives, 239-248
- Cryoglobulins, 7S, site for cryoprecipitation, 157
- Cryoprecipitable complexes, complement fixing in Felty's syndrome, 427
- Cyclophosphamide
 - immunologic response to, 415
 - in RA and SLE, 134, 161
 - in rheumatoid vasculitis, 414
 - in Wegener's granulomatosis, 408
 - low-dose therapy in RA and SLE, 189
 - lupus-like disease, 189
 - lymphocyte response to PHA, 424
- Cyst, rheumatoid synovial of hip, 105-108
- Cytotoxins
 - in dermatomyositis and polymyositis, 391
 - in RA, 161
 - in RA and SLE, 134
 - joint fluid compared with lymphocyte produced cytotoxin, 179
- Degenerative joint disease
 - elution of antiglobulin and antinuclear antibody, 157
 - long term treatment with Rumalon, 158
- Deminerlization in hypocomplementemia, 231-237
- Dermatomyositis
 - cytotoxins produced by, 391
 - survivorship, 249-258
- Detergents, anionic, denatured collagen, 180-181
- Dexamethasone inhibition of lymphocyte cytotoxins, 180
- Digital arteries, changes in scleroderma, 168
- Diphosphonate EHDP, effect on disuse osteoporosis and bone mass, 170
- Dislocation, congenital, of hip, 411
- Dissecting popliteal cysts, joint scans demonstrating, 591-598
- DNA
 - denatured, in vitro tests for cellular immunity in SLE, 401
 - determination by routine electrophoresis, 377
 - Farr ammonium sulfate technic, factors affecting, 623-630
 - precipitation of complex with anti-DNA, 161
 - release during high dose corticosteroid therapy, 259-266
- Dysphagia, effect on survivorship in polymyositis, 239-248
- EB virus antibody titer in SLE, 160
- Editorials:
 - Arthritis and Rheumatism, Jan-Feb 1971, 142
 - Infection and chronic rheumatic disease, 143
 - Mycoplasmas, 286
 - Tetracycline in RA, 788
- Encephalitis, allergic, inhibition of, 191
- Enteritis, regional
 - arthritis associated with, 398
 - spondylitis accompanying, 291-318
- Enzymes
 - hydrolytic in regenerated and rheumatoid synovium, 223-230
 - lysosomal:
 - effect of colchicine and indomethacin on release, 368
 - effect of CTAP on, 41-54
 - inhibition by Prostaglandin E₁, 191
 - mobilization and release inhibition by colchicine and cortisol, 425
 - proteolytic, effect on permeability of articular cartilage, 173
- Eosinophilia in RA, 650-665
- Erysipelas in swine, 193-201, 202-211
- Erysipelothrix insidiosa in swine erysipelas, 196-197, 202-211
- Erythromycin, antibacterial activity in synovial fluid, 96-104
- Esophagus, abnormalities in rheumatoid disease, 182
- Evaluation, functional of rheumatoid patient, 397
- Extractable nuclear antigen
 - antibodies to, 403
 - modifications of NZB/NZW nephritis, 405
- Extraspinal arthritis in juvenile ankylosing spondylitis, 579-590
- Farr ammonium sulfate technic, conditions affecting, 623-630
- Fatty acids, incorporation into cartilage, 379
- Felty's syndrome
 - chemotaxis in, 426
 - complement fixing cryoprecipitable complexes, 427
- Femoral head, idiopathic avascular necrosis, 163
- Femoroinguinal swelling in RA, 105-108
- Fetal bone, ⁴⁵Ca release, 396
- Fibrinolytic changes in SLE, 389
- Fibroblasts
 - cultured, effect of allopurinol and oxypurinol on pyrimidine synthesis, 169
 - dermal in fibrodysplasia ossificans progressiva, 151
 - metabolic abnormalities in cultures, 55-64
 - synovial and dermal responsiveness to CTAP, 41-54

SUBJECT INDEX

- Fibrodysplasia ossificans progressiva, 151, 152
- Fibrositis, muscle biopsies in, 168
- Filipinos, gout in, 721-726
- Finger
 intra-articular Thiotepe in RA, 212-222
 joints involved in spondylitis, 291-318
- 5-Fluorouracil in antigen-induced arthritis, 196
- Foot, radioisotope scintiscanning, 393
- Functional evaluation of rheumatoid patient, 397
- β -Galactosidase in skin, 185
- Gammaglobulin, levels in hypocomplementemia, 231-237
- Glomerulonephritis of NZB/NZW mice and Gross leukemia virus, 174
- Glucose uptake, CTAP induced, 41-54, 55-66
- β -Glucuronidase
 levels in synovium, 223-230
 release, colchicine and indomethacin, 368
 skin, 183
- Glycoprotein, synthetic, immunologic studies, 175
- Glycosaminoglycans in fibrodysplasia ossificans progressiva, 151, 152
- Glycosyl amino acids, urinary, 393
- Gold
 binding to RF, 172
 excretion in RA, 385
 excretion of labeled myochrysin, 386
 inhibition of gammaglobulin heat aggregation, 383
 metabolism, 402
 pharmacodynamics, 402
 tissue and fluid levels, 164
- Gout
 animal model, 394
 carbohydrate and lipid metabolism, 379
 colchicine in, 130-133
 indomethacin therapy, 415
 synovial membrane changes, 147
- Granulomatous disease, lupus-like symptoms, 411
- Growth hormone effect on cartilage, 376
- Hand
 method of scoring abnormalities, 706-713
 radiologic changes, 646-649
 structure and function, evaluation, 75-88
- Haptoglobin, in synovial effusions, 374
- Hemolytic complement levels in RA, 231-238
- Hemolytic plaque assay, 610-622
- Hepatitis-associated (Australia) antigen in SLE, 367
- Herpes zoster in RA, 135-137
- Hiatal hernia in rheumatoid disease, 182
- Hip
 congenital dislocation, 411
 degenerative joint disease, Rumalon in, 158
 osteoarthritis, biochemical and metabolic abnormalities, 400
 spondylitis, changes in, 291-318
 synovial cyst, 105-108
 total replacement, 418
- Histidine
 in RA, 162
 inhibition of gammaglobulin aggregation, 383
- Histocompatibility antigens in RA, 398
- Histone fractions and DNA complexes, reactions of in SLE, 485-492
- Hurler's syndrome, 165
- Hyaluronate synthesis in synovial culture, 41-54, 55-66
- Hyaluronateprotein, 183, 764-766
- Hydralazine-induced lupus, 165
- Hydrolases, synovial levels, 223-230
- Hydroxychloroquine, on lymphocyte cytotoxin, 179
- Hydroxylysineonoreucine, 187
- γ -Hydroxyphenylbutazone, biochemical properties, 190
- Hyperemia, effect of propranolol on, 420
- Hypergammaglobulinemia, 233
- Hyperlipoproteinemia
 prednisone therapy and, 396
 Type IV, musculoskeletal disorders, 384
- Hypermetabolism, polypeptide inducing, 41-54, 55-66
- Hypermobility syndrome, 407
- Hypersensitivity, delayed, 172
- Hypertriglyceridemia, 686
- Hyperuricemia
 American Samoans, 283-286
 in Filipinos, 721-726
 kidney adaptation to, 414
- Hypocomplementemia in RA, 162, 231
- Immune complexes
 interaction with RF, 413
 role in humoral antibody responses, 153
- Immunity, cellular
 and IgA deficiency in JRA, 178
 in SLE, 152
 in vitro testing in SLE, 401
 to nuclear antigen in SLE, 163
- Immunoelectrophoresis, counter, 377
- Immunofluorescence
 human tissue collagen, 409
 joint fluid leukocytes, 87-95

Immunoglobulin

aminoacid sequence of monoclonal IgG and M RF, 154

deposition in synovial fluid leukocytes, 87-95

detection of RF by immunofluorescence, 179

E, levels in RA, 389

IgG aggregates in serum and synovial fluid, 366

IgG and cellular immunity, in JRA, 178

IgG and IgM ratios in serum and synovial fluid, 560-570

IgG and IgM in eosinophilia in RA, 650-665

IgG paraproteinemia in multiple myeloma, 369

IgG protein binding Clq in SLE, 159

IgG, responses to in RA, 631

7S IgM in RA with vasculitis, 184

isotypic and allotypic antigens, 175

local and specific antibody synthesis, 156

monoclonal IgM anti-antibody activity, 400

prolonged synthesis by rheumatoid synovium, 171

RF precipitation of DNA-anti-DNA, 161

role in immune and inflammatory responses, 773-778

tissue fixed in SLE, 421

Immunologic reactions in RA, 631-638

Immunosuppressive therapy in NZB/NZW mice, 387

Impact loading, response of joints, 357-362

Incudomalleal joint, 465-474

Indomethacin

aspirin effect on serum levels, 375

double-blind study with BLR-743, 415

effect on acid phosphatase release, 368

lysosomal enzyme release from PMN's, 368

Infection

in RA, 135-137

recurrent, lymphocyte-monocyte defect in, 399

viral in RA, 155

Inflammation

animal model, 370, 610

Cathepsin-D levels as index of, 223-230

joint, colchicine in, 130-133

method of scoring in RA, 706-713

Inter- α -trypsin inhibitor, 764-766

Iodipamide, uricosuric effect of, 181

Iopanoic acid, uricosuric effect of, 181

Ipodate, uricosuric effect, 181

Isoniazid

acetylation rate and ANA development, 748-752

induction of antinuclear antibodies, 182

Isotopes in demonstrating dissecting popliteal cysts, 591-598

Jaccoud's syndrome, anatomic changes, 153

Joint

artificial lubricants, 126-128

calcification in pneumococcal arthritis, 394

disease, synovial fluid pH, lactate, pO_2 and pCO_2 , 188, 475

hypermobility syndrome, 407

inflammation, colchicine in, 130-133

involvement in spondylitis, 291-318

polyarthritis in Navajo arthritis, 348-355

radioisotope scintiscanning, 393

response to impact loading, 356-362

scale effects in animals, 493-502

size and inflammation in RA, 212-222

Juvenile rheumatoid arthritis

antibody to double-stranded RNA, 342-347

differentiation from juvenile ankylosing spondylitis, 579-590

elution of antiglobulin and antinuclear antibody from synovium, 157

IgA deficiency and cellular immunity, 178

immunologic studies, 685-696

knee arthroplasty, 159

serum and synovial fluid complement levels, 370-371

single disease, 412

synovectomy of hip, 148

viral antibody in, 180

Kallikrein, chemotactic activity for human neutrophil, 392-393

Keratoconjunctivitis sicca, 407

Kidney

adaptation to hyperuricemia, 414

disease, fibrinogen degradation, 267-275

handling of uric acid, 380

IgG subclass deposits in SLE, 266-282

impaired function, methotrexate therapy despite, 175

lupus-like disease, cyclophosphamide in, 189

transplant, serologic changes, 259-266

uric acid excretion defect, 721-726

Knee

arthroplasty, venographic study, 376

involvement in spondylitis, 291-318

metallic prosthetic arthroplasty, 188

Navajo arthritis, 348

regenerated synovium, 117-125

Lactate, CTAP induced increase, 41-54, 55-66

Lactic dehydrogenase, effect of colchicine and indomethacin on release, 368

Latex agglutination quantitation, 183

SUBJECT INDEX

- Latex test
 - positive tests in hypocomplementemia, 231-237
 - synovial fluid inhibition of, 374
- Lesch-Nyhan syndrome, allopurinol on pyrimidine excretion, 150
- Leukemia
 - arthritis as presenting manifestation, 412
 - Gross, and glomerulonephritis, 174
- Leukocytes
 - chemotaxis modified by RF, 388
 - chronic granulomatous disease, 411
 - immunoglobulin and complement deposition, 87-95
 - lysosomal antigens in SLE, 369
 - lysosomal enzyme release, colchicine and indomethacin on, 368, 425
 - phagocytic effect of colchicine and indomethacin, 388
 - prostaglandin E₁ inhibition of lysosomal enzyme release, 191
 - purine and pyrimidine analogues on motility, 418
 - "sense organs," 773-778
- Leukopenia in rabbits, 166
- Lincomycin in septic arthritis, 96-104
- Lipids
 - metabolism in gout, 379
 - metabolism in RA, 396
- Lipoprotein, erythrocyte membrane and Rh antigen activity, 386
- Lubricants for joints, 126-128
- Lupus erythematosus, lysosomal enzymes in skin, 185
- Lymphocytes
 - antilymphocyte antisera, 697-705
 - complement lysis in SLE, 414, 733-736
 - cytotoxins, 179
 - monocyte defect in anergy, 399
 - response to PHA during cyclophosphamide, 424
 - role in immune and inflammatory responses, 773-778
 - transformation in amyloidosis, 372
- Lymphocytotoxic antibodies in RA, SLE, 149
- Lymphoid cells in adjuvant arthritis, 370
- Lymphoid tissue antigen concentration, 153
- Lysinonorleucine, 187
- Lysosomal enzymes
 - colchicine and indomethacin effect on release, 368
 - in skin, 185
- β -Mannosidase of skin, 185
- Manubriosternal articulation in spondylitis, 291-318
- Meachim's scarification, 376
- Metabolism
 - abnormal in osteoarthritic cartilage, 400
 - gold in RA, 402
 - lipid
 - in gout, 379
 - in rheumatic disease, 396
- Methotrexate
 - combined with cytotoxic drugs in RA, 161
 - in disseminated vasculitis, 175
- Methyl cellulose, joint lubricating properties, 126-129
- Monoclonal IgM anti-antibody, 400
- Monocytes, in anergy, 399
- Monosodium urate, phagolysosome rupture, 420
- Mortality in infection in RA, 135-137
- Multiple myeloma
 - antibody to double-strand RNA, 342-347
 - RF of different species specificities, 369
- Muscle biopsy in rheumatic diseases, 168
- Musculoskeletal disorders, hyperlipoproteinemia in, 383
- Myasthenia gravis
 - antibody to double strand RNA, 342-347
 - nonthymomatous recurrence of thymus, 391
- Mycobacterium butyricum, plaque-forming cell response, 610-622
- Mycoplasma arthritides, 427
- Mycoplasma hyorhinis swine arthritis
 - clinical and microbiologic features, 193-201
 - metabolic inhibition test, 119
 - morphologic features, 202-211
 - mycoplasmas in arthritis, 287
- Myochrisine in gold excretion evaluation, 386
- Myoglobinemia in myositis syndromes, 169
- Myositis, allergic, experimental in rats, 599-609
- Myositis syndromes, myoglobinemia and myoglobinuria in, 169
- Nafcillin in septic arthritis, 96-104
- Navajo arthritis, 348-355
- Nephritis
 - gouty, animal model, 394
 - lupus:
 - histology and clinical course, 170
 - IgG antinuclear antibody subclass deposits, 266-282
 - serologic changes during kidney transplant, 259-266
 - NZB, intraglomerular deposits, 155
 - NZB/NZW modification by extractable nuclear antigen, 405
- Neuropathy, rheumatoid, sural nerve biopsies, 156
- Neutropenia in RA, 372
- Neutrophils, chemotactic activity, 392-393
- Nitrogen mustard in rheumatic disease, 212

- Nodules, in hypocomplementemia, 231-237
Nuclear ribonucleoprotein reactive, 402
- Oligoarthritis in juvenile ankylosing spondylitis, 579-590
- Orotic aciduria, allopurinol induced, 150
- Orotidinuria, allopurinol induced, 150
- Osteoarthritis
 Cathepsin D in cartilage, 367
 experimentally induced, 176
 haptoglobin in synovial effusions, 374
 hip, cartilage abnormalities, 400
 hydrolytic activity in synovium, 223-230
 inflammatory, 381
 multiple systems complaints, 390
 serum and synovial fluid protein levels, 560-570
- Osteophytes in spondylitis with other diseases, 291-318
- Osteoporosis
 disuse, diphosphonate EHDP in, 170
 hand, radiologic changes, 646-649
 spondylitis and, 291-318
- Oxonate, inhibition of uricase, 394
- Oxyphenylbutazone, biochemical properties, 190
- Oxypurinol, pyrimidine synthesis and, 169
- Painful foot, radioisotope scintiscanning, 392-393
- Pannus-free cartilage, EM study, 417
- Paramyxovirus-like structures in SLE, 421
- Paraproteinemia IgG, 369
- Parathyroid extract, effect on excretion of connective tissue components, 152
- Paravertebral ligamentous ossification, 291-318
- Parotid gland saliva studies, 407
- Pelvic whiskering, 291-318
- Penicillamine inhibition of gammaglobulin aggregation, 383
- Penicillin G, synovial fluid antibacterial activity, 96-104
- Periarticular inflammation, colchicine therapy, 130-133
- Pericarditis, rheumatoid, 382
- Per technetate^{99m} Tc, scanning arthritis joints, 32-40
- Phagocytic function in RA, 171
- Phagocytosis
 effect of colchicine on, 189
 IgG mediated by C1, 403
- Phagosomes, 87-95
- Phagolysosome, 420
- Phenoxymethyl penicillin in septic arthritis, 96-104
- Phenylbutazone metabolites, properties, 190
- Phosphatase, acid
 release, effect of colchicine and indomethacin on, 368
 levels in synovium, 223-230
- Photometric automated technic for detecting and quantitating latex agglutination, 183
- Photoscanning
 ¹³¹I human serum albumin, ^{99m}Tc albumin or ^{99m}Tc pertechnetate, 32-40
- Pigmented villonodular synovitis, 784-787
- Pin distraction, silastic membrane for knee arthroplasty, 159
- Platelets, sulphapyrazone effect on survival, 371
- Pleural effusion, soluble DNA complexes, 416
- Pleuritis, acute flare in hypocomplementemia, 231-237
- Pleuropericarditis in RA, 650-665
- Pneumococcal arthritis, 394
- Pneumonitis in polymyositis, 239-248
- Polyarthritis
 in Navajo arthritis, 348-355
 mycoplasma hyorhinis induced in swine, 193-301, 202-211
 radiographic pattern in Reiter's syndrome, 551-555
- Polychondritis, relapsing, immunopathology, 166
- Poly I - Poly C diminished adjuvant response, 390
- Polymyalgia rheumatica
 giant cell arteritis and, 138-141
 muscle biopsies in, 168
- Polymyositis
 cytotoxins, 391
 factors affecting survivorship, 249-258
 immunosuppressive therapy, 405
- Polypeptide
 connective tissue activating, 41-54, 55-66
- Polyvinyl pyrrolidone, joint lubrication, 126-129
- Prednisolone, effect of lymphocytic cytotoxins, 180
- Prednisone
 combination with AZ-PR and azathioprine, 389
 hyperlipoproteinemia, 396
- Presidential address, 789-794
- Prestyloid recess, 422
- Progressive systemic sclerosis (See *scleroderma*)
- Propranolol, peripheral hemodynamics, 420
- Prostaglandins
 E₁, inhibition of lysosomal enzymes, 191
 E₁, suppression of adjuvant arthritis, 426
 incorporation into cartilage, 379
- Protein IgG in SLE binding C1q, 159
- Protein polysaccharide
 immunologic nature of, 175
 role of aggregates in mineral growth, 167

SUBJECT INDEX

- Pseudogout, indomethacin and BLR-743 in, double-blind study, 415
- Psoriasis
 lysosomal enzymes of skin, 185
 spondylitis accompanying, 291-318
- Psoriatic arthritis, serum anti-immunoglobulins, 416
- Pulmonary fibrosis in RA, 650-665
- Pulmonary granulomas, inflammation potentiation, by RF, 378
- Pulmonary infiltration and survival in polymyositis, 239-248
- Purine analogues, effect on PMN motility, 418
- Puromycin, effect on lymphocyte cytotoxins, 179
- Pyrimidine
 allopurinol and oxypurinol effects on cultured fibroblasts, 169
 allopurinol inhibition of biosynthesis, 150
 effect of analogues on PMN motility, 418
- Pyrophosphate, inorganic, levels in synovial fluid, 173
- Radiologic changes in RA, scoring, 706-713
- Raynaud's syndrome
 effect of reserpine on vasoconstriction, 381
 vascular sensitivity to cold, 380
- Reiter's syndrome
 aortic insufficiency, 178
 in children, 767-772
 in RA, 753-764
 radiographic pattern of polyarthritis, 551-555
 spondylitis accompanying, 291-318
 viral antibody studies, 180
- Renal excretion of uric acid, 158
- Reserpine in Raynaud's syndrome and scleroderma, 381
- Reticular cell sarcoma, arthritis in, 412
- Rh antigen and membrane lipoprotein, 386
- Rheumatic disease
 absence of Australia antigen and antibody, 782-783
 functional evaluation, 397
 lysosomal glycosidase in skin, 185
- Rheumatoid arthritis
 antibodies to denatured collagen, 404
 antibody to double-strand RNA, 342-347
 antilymphocyte antisera, 697-705
 aspirin compared with placebo, 406
¹⁹⁹Au-labeled myochrysin in gold excretion study, 386
 autologous IgG in immunologic reactions, 631-638
 azathioprine, double-blind crossover study, 419
 bacteriolytic and bactericidal activity, 409
 canine, 672-676
 combined cytotoxic therapy, 161
 complexes in pleural effusions, 416
 cytotoxic drug therapy guidelines, 134
 dissecting popliteal cysts, 591-598
 EM study of pannus-free cartilage, 417
 eosinophilia in, 659-665
 esophageal abnormalities, 182
 femoroinguinal swelling, 105-108
 fibrinogen degradation products, 267-275
 gold excretion and clinical status, 385
 gold levels in tissue and fluid, 164
 gold metabolism, 402
 gold pharmacodynamics, 392
 haptoglobin in synovial effusions, 374
 histidine, oral, in, 162
 histocompatibility antigen in, 398
 hypocomplementemia in, 162
 IgG aggregates, 366
 IgG levels, 389
 IgG subclasses and renal deposits, 276-282
 7S IgM, 184
 immunologic response to cyclophosphamide, 415
 infection in, 135-137, 143
 inflammation, serum: synovial fluid protein concentrations, 560-570
 intra-articular C3 hypercatabolism, 410
 intra-articular radioactive yttrium, 399
 intra-articular thiotepa, 212-222
 leukocyte immunoglobulin and complement, 87-95
 local immunoglobulin and antibody synthesis, 156
 low dose cyclophosphamide, 189
 lymphocytotoxic antibodies, 149
 metabolic abnormalities in cultured cells, 55-66
 morphology of synovium favoring vasculitis, 401
 muscle biopsies, 168
 neuropathy, sural biopsy in, 156
 neutropenia, 372
 pericarditis, 382
 peripheral hemodynamics, 419
 phagocytic activity, 171
 prevalence in Yakima Indians, 150
 radiologic changes and osteoporosis of hand, 646-649
 regenerated synovium after synovectomy, 117-125
 Reiter's disease and ankylosing spondylitis associated with, 753-763
 scoring osseous defects and joint space narrowing, 706-713
 serum and synovial fluid anti-IgG, IgA and IgM, 416
 subchondral plate defects and bone erosions, 423
 synovial tissue and joint damage, 406

- tetracycline therapy, 727-731
- thermography, 387
- treatment performance, 423
- triamcinolone hexacetonide intra-articularly, 383
- tryptophan metabolism, 167
- serologic investigations for infectious etiology, 154
- structure and function of hand, rapid evaluation, 75-86
- synovium, antiglobulin and antinuclear antibody elution, 157
- viral antibody studies, 180
- Rheumatoid factor**
 - agglutination test, interference by Clq, 375
 - amino acid sequence in monoclonal IgG and IgM, 154
 - binding of gold to, 172
 - in eosinophilia, 650-665
 - inhibition of latex test by synovial fluid, 374
 - inhibition of red cell aggregation by nonsteroids, 383
 - interaction with immune complexes, 413
 - leukocyte chemotaxis modified by, 388
 - oral contraceptives and, 239-248
 - potentiation of pulmonary inflammatory response, 378
 - precipitation of DNA and anti-DNA in SLE, 161
 - production by rheumatoid synovium, quantitation, 171
 - serum, detection by immunofluorescence, 179
 - significance in SLE, 147
 - specificity, molecular size and IgG paraproteinaemia, 369
 - synthesis by salivary gland in Sjogren's syndrome, 368
- Ribonucleic acids**
 - antibodies in hypocomplementemia, 231-237
 - double stranded, antibodies to in SLE, 187, 342-347
 - inhibition of anti-RNA antibodies by, 187
- Ribonucleoprotein antigen**, 402
- Rubella**
 - acute arthritis complicating, 19
 - antibody in SLE, 1
 - arthritis in induced infection, 177
 - virus induced chronic arthritis, 164
- Rumalon**, sulfate incorporation by cartilage, 779-780
- Sabin-Feldman dye test**, 149
- Sacroiliac**
 - arthritis in juvenile ankylosing spondylitis, 579-590
 - involvement in spondylitis, 291-318
- Salicylate**
 - effect on cartilage lesions, 376
 - effect on mobilization and release of lysosomal enzymes, 425
 - serum levels and half-life, 527-532
- Saliva**, parotid, in keratoconjunctivitis sicca, 407
- Salivary gland**, synthesis of RF in Sjogren's syndrome, 368
- Sarcoidosis**, colchicine in, 130-133
- Sarcoma**, reticular cell, arthritis in, 412
- Scale effects** in animal joints, 493-502
- Scintiscanning**, in painful feet diagnosis, 393
- Scleroderma**
 - cellular immunity, 425
 - chromosome abnormalities, 407
 - effect of reserpine in, 371
 - effect on survivorship in polymyositis, 239-248
 - epidemiology, 174
 - morphologic abnormalities of digital artery, 168
 - reciprocal skin transplantation, 571-578
 - subcutaneous tissue, 160
 - survivorship factors, 403
 - systemic, leg ulcers in, 419
 - tryptophan metabolism, 167
 - xylosylserine levels in urine, 393-394
- Septic arthritis**
 - antibacterial activity of synovial fluid during therapy, 96-104
 - pneumococcal, 394
- Serology**, infectious etiology in early RA, 154
- Shoulder**, joint involvement in spondylitis, 291-318
- Silastic membrane**, knee arthroplasty, 159
- Silicone fluid joint lubricating properties**, 126-129
- Sjogren's syndrome**
 - antibody to double-stranded RNA, 342-347
 - clinical and laboratory studies, 152
 - RF synthesis by salivary gland tissue, 368
- Skin**, lysosomal enzymes, 185
- Spine** in spondylitis, 291-318
- Splenic germinal centers**, localization of altered IgG, 153
- Spondylitis**, ankylosing
 - chemotaxis in, 426
 - heart disease of, 384
 - in North American Indian males, 384
 - in various diseases, 291-318
 - juvenile, 579-590
 - rarity in black race, 13
 - Reiter's disease and RA, 753-763
- Steroid therapy**
 - affect on survivorship in polymyositis, 239-248
 - delayed hypersensitivity in guinea pigs, 172
 - eosinophilia in RA, 650-665

SUBJECT INDEX

- intra-articular triamcinolone hexacetonide, 383
- polymyalgia rheumatica and giant cell arteritis, 172
- release of DNA into serum, 259-266
- Structure and function of hand, rapid evaluation, 75-88
- Subchondral plate defects, 423
- Subcutaneous tissue in scleroderma, 160
- Sulphinpyrazone, effects on survival, 371
- Symphysis pubic involvement in spondylitis, 291-318
- Syndesmophytes in spondylitis, 291-318
- Synovectomy
 - hip in JRA, 148
 - hydrolytic activity in regenerated synovium, 223-230
 - regenerated synovium of knee, 117-125
- Synovial cyst of hip, 105-108
- Synovial fluid
 - antibacterial activity in septic arthritis, 96-104
 - antibody levels in *Mycoplasma hyorhinis* arthritis, 193-201
 - anti-IgA, IgG, IgM in JRA, 695-696, 737-747
 - bactericidal and bacteriolytic activity, 409
 - complement levels in JRA, 370-371
 - Cl in, 378
 - cytotoxins in, 179
 - haptoglobin in RA, 374
 - hyaluronate protein in, 764-766
 - IgE levels in RA, 389
 - IgG aggregates in RA, 366
 - inhibition of RF latex test, 374
 - in *Mycoplasma hyorhinis* induced arthritis, 202-211
 - inorganic pyrophosphate levels, 173
 - joint lubricant, 126-128
 - leukotactic C3 factor and cleaving enzyme, 190
 - low C levels in hypocomplementemia, 231-237
 - pH, lactate, pO_2 and pCO_2 in joint disease, 188, 475
 - RF in synovitis, 87-95
- Synovitis
 - chronic in calcium crystal deposition disease, 109-116
 - complement system in, 87
 - immunologically induced, 377
 - intra-articular thiotepa for, 212-222
 - intra-articular triamcinolone hexacetonide, 383-384
 - intraplasmic inclusions of immunoglobulin and complement, 87-95
 - pathogenesis, 150
 - rubella induced, 164
 - villonodular, cytoplasmic tubular structures, 784-787
- Synovium
 - acute gouty arthritis, study of, 147
 - characteristics in RA, culture, 171
 - culture medium, 396
 - effect of colchicine on cultures, 669
 - effect of radioactive colloid on, 404
 - elution of antiglobulin and antinuclear antibody, 157
 - EM analysis of cultured cells, 397
 - human fetal, histology, structure and changes, 319-341
 - lubrication of, 186
 - metabolic abnormalities in culture, 55-66
 - morphology favoring vasculitis, 401
 - myxovirus-like structures in pigmented villonodular, 784-787
 - pathology in mycoplasma induced arthritis, 202-211
 - permeability to plasma proteins, 560-570
 - prolonged immunoglobulin synthesis, 171
 - regeneration, histopathology of, 117-125
 - rheumatoid and regenerated, hydrolases in, 223-230
 - role of CTAP in inflammation, 41-54
- Systemic lupus erythematosus
 - antibodies to double-stranded RNA, 342-347
 - antibodies to viral antigen, 1
 - azathioprine in, 639-645
 - cell mediated immunity during onset, 152
 - cellular immunity to nuclear antigens, 163, 369
 - chemotaxis in, 426
 - choroidal plexus in, 148
 - coagulation changes, 389
 - complement fixation with platelets, 184
 - Clq binding site, 382
 - delayed hypersensitivity responses, 369
 - Epstein-Barr virus antibody titers, 160
 - fibrinogen degradation products in serum and urine, 267-275
 - gonococcal arthritis, 557-559
 - guidelines for cytotoxic drug therapy, 134
 - hydralazine induced, 165
 - IgG antinuclear subclasses and renal deposits, 276-282
 - IgG protein binding Clq, 159
 - immune responses in discordant twins, 373
 - intra-articular C3 hypercatabolism, 410
 - in vitro testing for cellular immunity to denatured DNA, 401
 - low dose cyclophosphamide, 189

- lupus nephritis in children, histology and clinical course, 170
- lymphocyte lysis by complement, 414, 733-739
- lymphocytotoxic antibodies, 149, 373-374
- lysosomal antigen and antibody, 369
- paramyxovirus-like structures and tissue fixed immunoglobulins, 421
- reactions with histone fractions and histone-DNA complexes, 485-492
- release of DNA antigen, 259-266
- rheumatoid factor in, 147
- rheumatoid factor precipitation of DNA-anti-DNA, 161
- serum and CSF complement and autoantibodies, 180
- soluble nuclear RNA protein, 412
- thymectomy, 391-392
- virus antibody studies, 180

- Tetracycline
 - in RA, 727-731, 788
 - in septic arthritis, 96-104
- Thermography, 387
- Thiotepa, intra-articular, 212-222
- Thrombophlebitis, differentiation from dissecting popliteal cyst, 591-598
- Thumb, intra-articular thiotepa in joint, 212-222
- Thymectomy, thymus recurrence after, 391
- Thyroiditis, allergic, 191
- Toes, joint involvement, 291-318
- Toxoplasma fluorescent antibody, 149
- Transplant, renal, serologic changes, 259-266
- Triamcinolone hexacetonide intra-articularly, 383
- Triamcinolone inhibition of lymphocyte and joint fluid cytotoxin, 180
- Tryptophan metabolism, 167
- Tubercle bacillus enhanced cell migration, 408
- Tuberculous arthritis, 151
- Twins, discordant for SLE, 372

- Ulcers in systemic scleroderma, 184

- Ulnar styloid erosions, 422
- Urate crystals
 - effect of colchicine on phagocytosis, 189
- Uric acid
 - defective renal excretion in Filipinos, 721-726
 - excretion and urine flow rate, 158
 - excretion, effect of Iopanoic acid on, 180-181
 - hyperuricemia in American Samoans, 283-285
 - renal handling, 380
- Uricase, oxonate inhibition, 394
- Urine
 - flow rate and uric acid excretion, 158
 - glycosylamino acids, 393

- Vasculitis
 - acute flare in hypocomplementemia, 231-237
 - cyclophosphamide in, 414
 - disseminated, methotrexate in, 175
 - 7S IgM in RA, 184
 - morphology of synovium, 401
 - RA, 650-665
- Vasoconstriction, cold induced, 380, 381
- Venograms, study of arthroplasty of knee, 376
- Villonodular synovitis, 784-787

- Wax D
 - delayed skin reactivity, 395
 - enhanced in vitro cell migration, 408
- Wegener's granulomatosis
 - cyclophosphamide in, 408
 - methotrexate in, 175
- Wrist
 - scoring radiologic abnormalities, 706-713
- Xylosylserine levels in RA, 393

- Yakima Indians, RA in, 423
- Yttrium, intra-articular, radioactive
 - in RA, 399
 - preparation and distribution in rabbits, 399
- Zymogen, collagenase in tadpole, 388

